Case 2510

EUGLENIDAE Stein, 1878 (Protista, Flagellata) and EUGLENIDAE Seidlitz, 1875 (Insecta, Coleoptera): proposals to remove the homonymy, with conservation of ADERIDAE Winkler, 1927 (Insecta, Coleoptera)

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Abstract. The purpose of this application is to remove the homonymy between the protistan family-group name EUGLENIDAE Stein, 1878 and the beetle name EUGLENIDAE Seidlitz, 1875. It is proposed that the latter be altered to EUGLENESIDAE by changing the stem of the type genus *Euglenes* from EUGLEN- to EUGLENES-. It is further proposed that ADERIDAE Winkler, 1927 should have precedence over EUGLENESIDAE.

1. J. O. Westwood described two new beetle genera, *Aderus* (p. 57) and *Euglenes* (p. 59) in the *Zoological Journal*, London, published at some time between May 1829 and February 1830. For nomenclatural precedence, however, the genus *Aderus* dates from Stephens (1829, p. 255), even though he acknowledged 'Westwood MSS' as the source of the name. *Aderus* Stephens, 1829 and *Euglenes* Westwood, 1830 both included the species *Anthicus oculatus* Paykull, 1798, which was designated as type species of *Euglenes* by Pic (1900, p. 3); *Lytta boleti* Marsham, 1802 (p. 486) had been designated as type species of *Aderus* by Westwood (loc. cit.).

2. Family-group names based on the genera are EUGLENINI Seidlitz, 1875 (p. 380) and ADERIDAE Winkler, 1927 (col. 831); each included both *Euglenes* and *Aderus*.

3. Other family names which have contained nominal species included in *Aderus* and *Euglenes* are XYLOPHILIDAE Schuckard, 1840 and HYLOPHILIDAE Pic, 1900, with respective type genera *Xylophilus* Curtis, 1830 and *Hylophilus* Berthold, 1827. However since these generic names are junior homonyms of *Xylophilus* Mannerheim, 1823 (Coleoptera) and *Hylophilus* Temminck, 1822 (Aves), both XYLOPHILIDAE Schuckard and HYLOPHILIDAE Pic are invalid under Article 39 of the Code.

4. It follows from the above that EUGLENIDAE Seidlitz, 1875 is a valid family-group name. However, *Euglenes* is now normally treated as a subgenus of *Aderus*, and EUGLENIDAE Seidlitz has been very little used (in the present century notably by Arnett (1960–62, p. 753) and Lawrence (1982, p. 1107). ADERIDAE is in constant usage (a list of representative works is held by the Secretariat).

5. In 1830 Ehrenberg (pp. 502, 507, 508) proposed the genus *Euglena* for a group of six flagellate protistans. Dujardin (1841, p. 358) designated *E. viridis* (Mueller, 1786) as type. In 1878 Stein (p. x) established, as 'Euglenida', the family name EUGLENIDAE. The euglenids are extremely well known and widely studied. A minority of the genera include green photosynthetic species, and they are often named under the International Code of Botanical Nomenclature (family name EUGLENACEAE). However, like many Protista, they are claimed at present by both botanists and zoologists.

6. Any zoologist has the taxonomic freedom to treat *Euglenes* Westwood, 1830 as the type genus of a coleopteran family or subfamily with Seidlitz, 1875 as author. However it is important that confusion should not exist with the junior, but very much better known, protistan homonym EUGLENIDAE Stein, 1878.

7. The International Commission on Zoological Nomenclature is accordingly asked:

(1) to use its plenary powers to rule that:
  (a) the stem of the generic name *Euglenes* Westwood, 1830 is, for the purposes of Article 29, EUGLENES–;
  (b) the family-group name ADERIDAE Winkler, 1927, is to be given precedence over EUGLENESIDAE Seidlitz, 1875, whenever the two names are considered synonyms;
(2) to place the following names on the Official List of Generic Names in Zoology:
  (a) *Aderus* Stephens, 1829 (gender: masculine), type species, by designation by Westwood (1830), *Lytta boleti* Marsham, 1802;
  (b) *Euglena* Ehrenberg, 1830 (gender: feminine), type species, by designation by Dujardin (1841), *Cercaria viridis* Mueller, 1786;
  (c) *Euglenes* Westwood, 1830 (gender: masculine), type species, by designation by Pic (1900), *Anthicus oculatus* Paykull, 1798;
(3) to place the following names on the Official List of Specific Names in Zoology:
  (a) *boleti* Marsham, 1802, as published in the binomen *Lytta boleti* (specific name of the type species of *Aderus* Stephens, 1829);
  (b) *viridis* Mueller, 1786, as published in the binomen *Cercaria viridis* (specific name of the type species of *Euglena* Ehrenberg, 1830);
  (c) *oculatus* Paykull, 1798, as published in the binomen *Anthicus oculatus* (specific name of the type species of *Euglenes* Westwood, 1830);
(4) to place the following names on the Official List of Family-Group Names in Zoology:
  (a) ADERIDAE Winkler, 1927, type genus *Aderus* Stephens. 1829, with the endorsement that it is to be given precedence over EUGLENESIDAE Seidlitz, 1875;
  (b) EUGLENIDAE Stein, 1878, type genus *Euglena* Ehrenberg, 1830;
  (c) EUGLENESIDAE Seidlitz, 1875, (emendation of EUGLENIDAE), type genus *Euglenes* Westwood, 1830, with the endorsement that it is not to be given precedence over ADERIDAE Winkler, 1927;
(5) to place on the Official Index of Rejected and Invalid Family-Group Names in Zoology the name EUGLENIDAE Seidlitz, 1875 (emended to EUGLENESIDAE in (1) above.

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